



US006732410B1

(12) **United States Patent**
Nedderman, Jr.

(10) **Patent No.:** **US 6,732,410 B1**
(45) **Date of Patent:** **May 11, 2004**

(54) **PRECISION HINGE MOUNTING STOPS**

(75) **Inventor:** **William H. Nedderman, Jr.,**
Middletown, RI (US)

(73) **Assignee:** **The United States of America as**
represented by the Secretary of the
Navy, Washington, DC (US)

(*) **Notice:** Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

(21) **Appl. No.:** **09/332,407**

(22) **Filed:** **Jun. 14, 1999**

(51) **Int. Cl.⁷** **E05F 5/04**

(52) **U.S. Cl.** **16/374; 16/371; 16/375**

(58) **Field of Search** **16/371, 374, 375**

(56) **References Cited**

U.S. PATENT DOCUMENTS

1,616,265 A 2/1927 Kroehling
1,903,251 A • 3/1933 Ahrens 16/374

2,592,230 A 4/1952 Allen
3,325,854 A • 6/1967 Steigerwald 16/371
4,831,688 A 5/1989 Deininger
5,027,471 A • 7/1991 Barnes 16/374
5,661,875 A • 9/1997 Overcash et al. 16/374
5,662,596 A 9/1997 Young
6,108,866 A • 8/2000 Waynick, Jr. 16/374

* cited by examiner

Primary Examiner—Anthony Knight

Assistant Examiner—Enoch E. Peavey

(74) **Attorney, Agent, or Firm**—Michael J. McGowan;
Robert W. Gauthier; Prithvi C. Lall

(57) **ABSTRACT**

To accurately and reproducibly set the angle of a hinge, especially a very small hinge, a precision hinge and angled mounting stops are provided. The device comprises a hinge joint having a fastener, such as a screw, connecting two bodies. A flat C-shaped mounting stop fits over the fastener and has two straight outer edges that contact each of the two bodies, respectively. The relative angle between the outer edges determines the set angle of the hinge.

15 Claims, 1 Drawing Sheet

